

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	34	501/57,58,65.ccls. and (SiO2 or "SiO.sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) and (B2O3 or "B.sub.2 O.sub.3" or B203 or "B.sub.2 O.sub.3" or boron or borio or boro or boron) and (K2O or "K.sub.2 O" or K20 or "K.sub.2 O" or potash or potassium) and (ZrO2 or "ZrO.sub.2" or Zr02 or "Zr0.sub.2" or zirconium or zirconia) and (Li2O or "Li.sub.2 O" or Li20 or "Li.sub.2 O" or Lithia or lithium) and (Na2O or "Na.sub.2 O" or Na20 or "Na.sub.2 O" or sodo or soda or sodium) and (MgO or Mg0 or Magnesium) and (CaO or Ca0 or calcium or calico or calcia or lime) and (BaO or Ba0 or barium or baria) and (ZnO or Zn0 or zinc) and (TiO2 or "TiO.sub.2" or Ti02 or "Ti0.sub.2" or titania or titanium) and (CeO2 or "CeO.sub.2" or Ce02 or "Ce0.sub.2" or Ce2O3 or "Ce.sub.2 O.sub.3" or "Ce.sub.2 O.sub.3" or Ce203 or "Ce.sub.20. sub.3" or "Ce.sub.20. sub.3" or cerium or ceria) and (Fluorine or F- or "F.sup.-" or fluoride)	US-PGPUB; USPAT	OR	ON	2005/11/25 16:39
L2	171	501/57,58,65.ccls. and (SiO2 or "SiO.sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) and (B2O3 or "B.sub.2 O.sub.3" or B203 or "B.sub.2 O.sub.3" or boron or borio or boro or boron) and (K2O or "K.sub.2 O" or K20 or "K.sub.2 O" or potash or potassium) and (ZrO2 or "ZrO.sub.2" or Zr02 or "Zr0.sub.2" or zirconium or zirconia) and (Li2O or "Li.sub.2 O" or Li20 or "Li.sub.2 O" or Lithia or lithium) and (Na2O or "Na.sub.2 O" or Na20 or "Na.sub.2 O" or sodo or soda or sodium)	US-PGPUB; USPAT	OR	ON	2005/11/25 21:09
L3	202	501/57,58,65.ccls. and (SiO2 or "SiO.sub.2" or Si02 or "Si0.sub.2" or silica or silicon or quartz) and (B2O3 or "B.sub.2 O.sub.3" or B203 or "B.sub.2 O.sub.3" or boron or borio or boro or boron) and (K2O or "K.sub.2 O" or K20 or "K.sub.2 O" or potash or potassium) and (ZrO2 or "ZrO.sub.2" or Zr02 or "Zr0.sub.2" or zirconium or zirconia)	US-PGPUB; USPAT	OR	ON	2005/11/25 21:09

L5	1115	(borosilicate adj glass) and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (B2O3 or "B.sub.2 O.sub.3" or B2O3 or "B. sub.2 O.sub.3" or boron or borio or boro or boron) and (K2O or "K.sub.2 O" or K2O or "K.sub.2 O" or potash or potassium) and (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/11/25 16:39
L6	82	(borosilicate adj glass) and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (B2O3 or "B.sub.2 O.sub.3" or B2O3 or "B. sub.2 O.sub.3" or boron or borio or boro or boron) and (K2O or "K.sub.2 O" or K2O or "K.sub.2 O" or potash or potassium) and (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia)	EPO; JPO; DERWENT	OR	ON	2005/11/25 16:39
L7	48	501/57,58,65.ccls. and (SiO2 or "SiO. sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (B2O3 or "B. sub.2 O.sub.3" or B2O3 or "B.sub.2 O. sub.3" or boron or borio or boro or boron) and (K2O or "K.sub.2 O" or K2O or "K.sub.2 O" or potash or potassium) and (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia)	USOCR	OR	ON	2005/11/25 16:40
L8	137	I2 not I1	US-PGPUB; USPAT	OR	ON	2005/11/25 23:46
L9	168	I3 not I1	US-PGPUB; USPAT	OR	ON	2005/11/25 23:30
L10	0	I2 not I3	US-PGPUB; USPAT	OR	ON	2005/11/25 23:30
L11	1	"5017521".pn.	US-PGPUB; USPAT	OR	ON	2005/11/25 23:47
L12	1	"3499776".pn.	US-PGPUB; USPAT	OR	ON	2005/11/25 23:48

Mol %	Optical Glass				Mol %			
comprising	1	2	3	4	1	5	6	
B2O3	X	X	X	X				B2O3
SiO2	X	X	X	X				SiO2
La2O3	X	X	X	X	5-20	contains		La2O3
Gd2O3	X	X	X	X	5-20	contains		Gd2O3
ZnO	X	X	X	X	2-35			ZnO
Li2O	X	X	X	X	0.5-15			Li2O
ZrO2	X	X	X	X	0.5-15			ZrO2
Ta2O5	X	X	X	X	0.2-10			Ta2O5
WO3					0-15			WO3
Y2O3					0-8	contains		Y2O3
Yb2O3					0-8	contains		Yb2O3
Sb2O3	0-1	0-1	0-1	0-1				Sb2O3
PbO	S. None	S. None	S. None	S. None				PbO
Lu2O3	S. None	S. None	S. None	S. None				Lu2O3
Nb2O5					optional			Nb2O5
BaO					optional			BaO
GeO2					optional			GeO2
Sc2O3					contains			Sc2O3
La+Gd+Yb+Y+Sc						12-32		La+Gd+Yb+Y+Sc
La/La+Gd+Yb+Y+Sc								La/La+Gd+Yb+Y+Sc
Total listed above					>95%			Total listed above
Tg	<=630°C	<=630°C	<=630°C	<=630°C				Tg
Nd	>1.8-1.9	>1.85	>1.8-1.9	>1.8-1.9				Nd
Vd	>35-50	>35	>35-50	>35-50				Vd
nd=>2.025-(0.005x vd)	X		X	X				nd=>2.025-(0.005x vd)
Preform								Preform
Optical element						X	X	Optical element